



# **SuperStack® 3**

## Switch 3300 SM

### User Guide

**3C16987A**

<http://www.3com.com/>

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# CONTENTS

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## ABOUT THIS GUIDE

Conventions	8
Related Documentation	9
Year 2000 Compliance	10
Documentation Comments	10
Product Registration	10

---

## 1 INTRODUCING THE SWITCH 3300 SM

About the SuperStack 3 Switch 3300 SM	12
Summary of Features	12
Switch 3300 SM — Front View Detail	13
10BASE-T/ 100BASE-TX Ports	13
1000BASE-SX Port	13
LEDs	13
Switch 3300 SM — Rear View Detail	15
Unit Information Label	15
Power Socket	15
Redundant Power System Socket	15
Console Port	16
Matrix Port	16
Network Configuration Examples	17
Switch 3300 SM as a Segmentation Switch	17
Switch 3300 SM as a Collapsed Backbone Switch	18
Switch 3300 SM as a Desktop Switch	19
Configuration Rules for Fast Ethernet	20
Configuration Rules with Full Duplex	21
Configuration Rules for Gigabit Ethernet	22
Configuration Rules for the 3300 SM	22

---

## **2 INSTALLING THE SWITCH**

Choosing a Suitable Site	24
Rack-mounting	24
Placing Units On Top of Each Other	25
Stacking Units	26
Stacking Two Units	26
Stacking Up To Four Units	27
The Power-up Sequence	29
Connecting a Redundant Power System	29
Powering-up the Switch 3300 SM	29
Checking for Correct Operation	29
Choosing the Correct Cables	30
Solving Problems Indicated by LEDs	31
Managing the Switch	32

---

## **A SAFETY INFORMATION**

Important Safety Information	34
L'information de Sécurité Importante	36
Wichtige Sicherheitsinformationen	38

---

## **B PIN-OUTS**

Null Modem Cable	41
PC-AT Serial Cable	41
Modem Cable	42
RJ45 Pin Assignments	42

---

## **C TECHNICAL SPECIFICATIONS**

---

## **D TECHNICAL SUPPORT**

Online Technical Services	47
World Wide Web Site	47
3Com Knowledgebase Web Services	47
3Com FTP Site	48
Support from Your Network Supplier	48
Support from 3Com	48
Returning Products for Repair	50

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**GLOSSARY**

---

**INDEX**

---

**3COM CORPORATION LIMITED WARRANTY**

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**REGULATORY NOTICES**



# ABOUT THIS GUIDE

This guide provides all the information you need to install and use a SuperStack® 3 Switch 3300 SM (3C16987A) unit with default settings. If you want to change the way the Switch works using management software, refer to the “SuperStack Switch Management Guide”.

The guide is intended for use by network administrators who are responsible for installing and setting up network equipment; consequently, it assumes a basic working knowledge of LANs (Local Area Networks).



*If the information in the release notes that are shipped with your product differs from the information in this guide, follow the instructions in the release notes.*

Most user guides and release notes are available in Adobe Acrobat Reader Portable Document Format (PDF) or HTML on the 3Com World Wide Web site:

**<http://www.3com.com/>**



*This guide makes reference to the SuperStack 3 Switch 3300 MM. This Switch has three fixed Matrix Ports on its rear panel and can be used to stack any 1100/3300 family Switch. Note that any 1100/3300 family Switch fitted with a Matrix Module can also be used to stack Switches.*



*All the Switches mentioned in this guide are compatible with the Switches found within the SuperStack 1100/3300 family range.*

Conventions

[Table 1](#) and [Table 2](#) list conventions that are used throughout this guide.

Table 1 Notice Icons




Icon	Notice Type	Description
	Information note	Information that describes important features or instructions
	Caution	Information that alerts you to potential loss of data or potential damage to an application, system, or device
	Warning	Information that alerts you to potential personal injury

Table 2 Text Conventions

Convention	Description
Screen displays	This typeface represents information as it appears on the screen.
Syntax	<p>The word “syntax” means that you must evaluate the syntax provided and then supply the appropriate values for the placeholders that appear in angle brackets. Example:</p> <p>To change your password, use the following syntax:</p> <pre>system password &lt;password&gt;</pre> <p>In this example, you must supply a password for &lt;password&gt;.</p>
Commands	<p>The word “command” means that you must enter the command exactly as shown and then press Return or Enter. Commands appear in bold. Example:</p> <p>To display port information, enter the following command:</p> <pre><b>bridge port detail</b></pre>
The words “enter” and “type”	When you see the word “enter” in this guide, you must type something, and then press Return or Enter. Do not press Return or Enter when an instruction simply says “type.”
Keyboard key names	<p>If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example:</p> <p>Press Ctrl+Alt+Del</p>



**Table 2** Text Conventions (continued)

Convention	Description
Words in <i>italics</i>	<p>Italics are used to:</p> <ul style="list-style-type: none"> <li>■ Emphasize a point.</li> <li>■ Denote a new term at the place where it is defined in the text.</li> <li>■ Identify menu names, menu commands, and software button names. Examples:</li> </ul> <p>From the <i>Help</i> menu, select <i>Contents</i>.</p> <p>Click <i>OK</i>.</p>

## Related Documentation

In addition to this guide, each Switch 3300 SM document set includes the following:

- *Management Guide*  
This guide contains all the management information for the Switch.
- *Quick Reference Guide*  
This guide contains a quick summary of the hardware and software information for the Switch.
- *Quick Installation Guide*  
This guide contains a summary of the package contents, and a quick summary of the installation information for the Switch.
- *Release Notes*  
These notes provide information about the current software release, including new features, modifications, and known problems.
- *SuperStack Switch Help*  
This help provides information about the web interface software of the Switch. It is supplied on the SuperStack Switch CD-ROM.
- *SuperStack Switch README File*  
This file provides information about the current software release, including new features, modifications, and known problems. It is supplied on the SuperStack Switch CD-ROM.

In addition, there are other publications you may find useful:

- Documentation accompanying the Advanced Redundant Power System.

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## **Year 2000 Compliance**

For information on Year 2000 compliance and 3Com products, visit the 3Com Year 2000 Web page:

<http://www.3com.com/products/yr2000.html>

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Please include the following information when commenting:

- Document title
- Document part number (on the title page)
- Page number (if appropriate)

Example:

- SuperStack 3 Switch 3300 SM User Guide
- Part Number DUA1698-7AAA02
- Page 21

---

## **Product Registration**

You can now register your SuperStack Switch on the 3Com web site to receive up-to-date information on your product:

<http://support.3com.com/warrantyregistration/register.pl>

# 1

## INTRODUCING THE SWITCH 3300 SM

This chapter contains introductory information about the Switch and how it can be used in your network. It covers the following topics:

- [About the SuperStack 3 Switch 3300 SM](#)
- [Switch 3300 SM — Front View Detail](#)
- [Switch 3300 SM — Rear View Detail](#)
- [Network Configuration Examples](#)
- [Configuration Rules for Fast Ethernet](#)
- [Configuration Rules with Full Duplex](#)
- [Configuration Rules for Gigabit Ethernet](#)
- [Configuration Rules for the 3300 SM](#)

---

## About the SuperStack 3 Switch 3300 SM

The SuperStack® 3 Switch 3300 SM connects:

- your existing 10Mbps devices.
- high-performance workgroups with a 100Mbps or 1000Mbps backbone or server connection.
- users to dedicated 100Mbps ports in one switch.

In addition, as part of the 3Com® SuperStack 3 range of products, you can combine it with any SuperStack II or SuperStack 3 system as your network grows.

## Summary of Features

The Switch has the following hardware features:

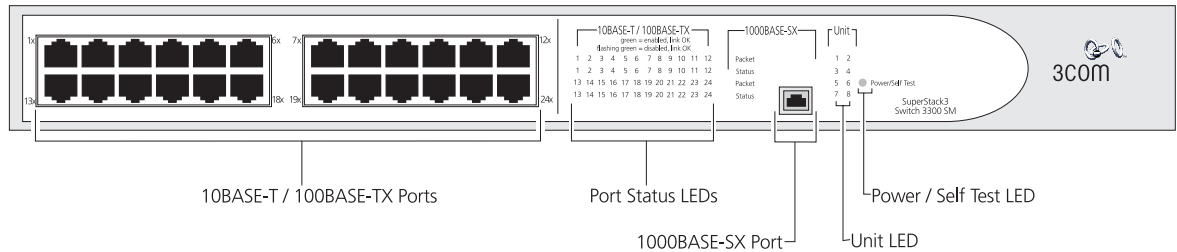
- 24 Fast Ethernet auto-negotiating 10BASE-T/100BASE-TX ports
- 1000BASE-SX Gigabit Ethernet port
- One Matrix Port for connecting units in the Switch 1100/3300 family to form a stack. This enables you to:
  - Connect two units back-to-back using a single Matrix Cable
  - Stack the Switch with up to three other units in the Switch 1100/3300 family, when one of the units is a Switch 3300 MM unit
- SuperStack architecture
  - Connects to Redundant Power System/Advanced Redundant Power System
  - 19-inch rack or stand-alone mounting



*For information about the software features of the Switch, refer to the "SuperStack Switch Management Guide".*

## Switch 3300 SM — Front View Detail

**Figure 1** Switch 3300 SM — front view



### 10BASE-T/ 100BASE-TX Ports

The Switch has 24 auto-negotiating 10BASE-T/100BASE-TX ports configured as MDIX (cross-over). These ports can be set to 10BASE-T half duplex, 10BASE-T full duplex, 100BASE-TX half duplex, 100BASE-TX full duplex, or they can automatically detect the speed and duplex mode of a link and provide the appropriate connection. The maximum segment length is 100m (328ft) over Category 5 twisted pair cable.



*As these ports are configured as MDIX (cross-over), you need to use a cross-over cable to connect to devices whose ports are MDIX-only. See [“Choosing the Correct Cables”](#) on [page 30](#) for more information.*

### 1000BASE-SX Port

The Switch has a Gigabit Ethernet Port that provides a 1000Mbps connection to another Gigabit Ethernet device. This port uses 62.5  $\mu$ m or 50  $\mu$ m multimode fiber optic cable with MT-RJ duplex connectors.

### LEDs

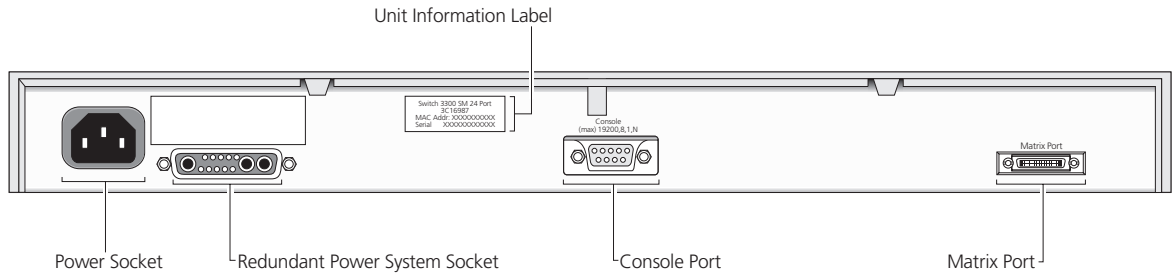
[Table 3](#) (overleaf) lists the LEDs visible on the front of the Switch, and their states according to color. For information on using the LEDs for problem solving, see [“Solving Problems Indicated by LEDs”](#) on [page 31](#).

**Table 3**   LED behavior

LED	Color	Indicates
<b>Port Status LEDs</b>		
Packet	Yellow	Packets are being transmitted/received on the port.
	Off	No packets are being transmitted/received on the port.
Status	Green	A link is present, and the port is enabled.
	Green flashing	A link is present, but the port is disabled.
	Off	No link is present.
<b>Unit LEDs</b>		
1–8	Green	The Switch forms a stack with other Switch units; the LED indicates the position of the Switch in the stack and that a link is present. Note that although there are eight LEDs, only four Switch units can be stacked at present.
	Off	The Switch is stand-alone.
<b>Power/Self Test LED</b>		
	Green	The Switch is powered-up.
	Green flashing	The Switch is either downloading software or is initializing (which includes running a Power On Self Test).
	Yellow	The Switch has failed its Power On Self Test.
	Off	The Switch is not receiving power.

## Switch 3300 SM — Rear View Detail

**Figure 2** Switch 3300 SM — rear view



### Unit Information Label

This label shows the following:

- The 3Com product name of the Switch
- The 3Com 3C number of the Switch
- The unique MAC address (Ethernet address) of the Switch
- The serial number of the Switch

You may need this information for fault reporting purposes.

### Power Socket

The Switch automatically adjusts its power setting to any supply voltage in the range 90–240V A.C.

### Redundant Power System Socket

To protect against internal power supply failure, you can use this socket to connect a SuperStack Advanced Redundant Power System (ARPS) to the Switch. See [“Connecting a Redundant Power System”](#) on [page 29](#).

**Console Port** The console port allows you to connect a terminal and perform remote or local out-of-band management. The console port uses standard null modem cable and is set to auto-baud, 8 data bits, no parity and 1 stop bit.

**Matrix Port** The Matrix Port allows you to:

- Stack the Switch with another unit in the Switch 1100/3300 family using a single Matrix Cable
- Stack the Switch with up to three other units in the Switch 1100/3300 family, when one of the units is a Switch 3300 MM unit

For more information about the role of the Matrix Port, see [“Stacking Units”](#) on [page 26](#).

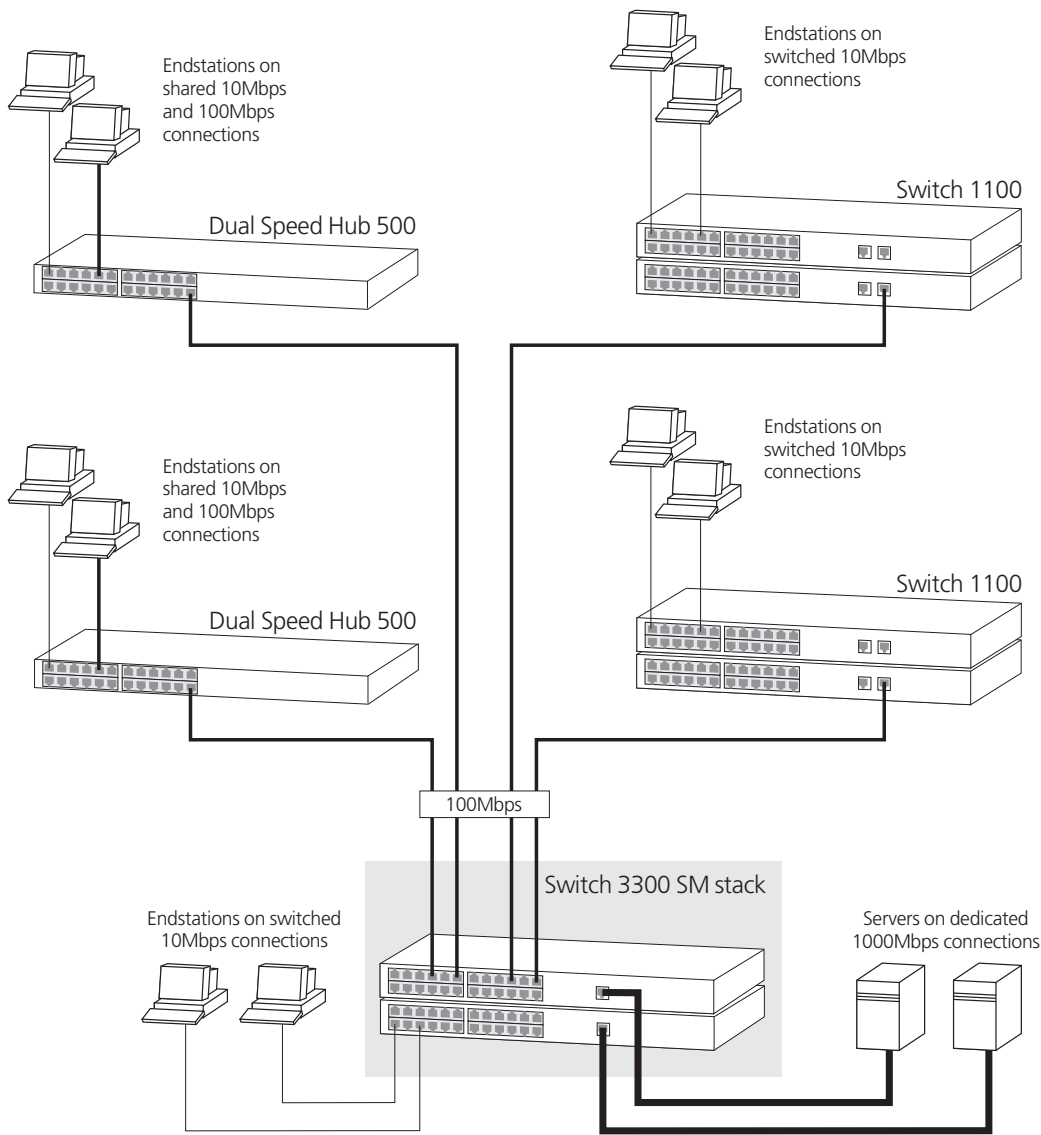




**Switch 3300 SM as a Collapsed Backbone Switch**

The example in [Figure 4](#) shows how a Switch 3300 SM stack can act as a backbone for both shared and switched network segments.

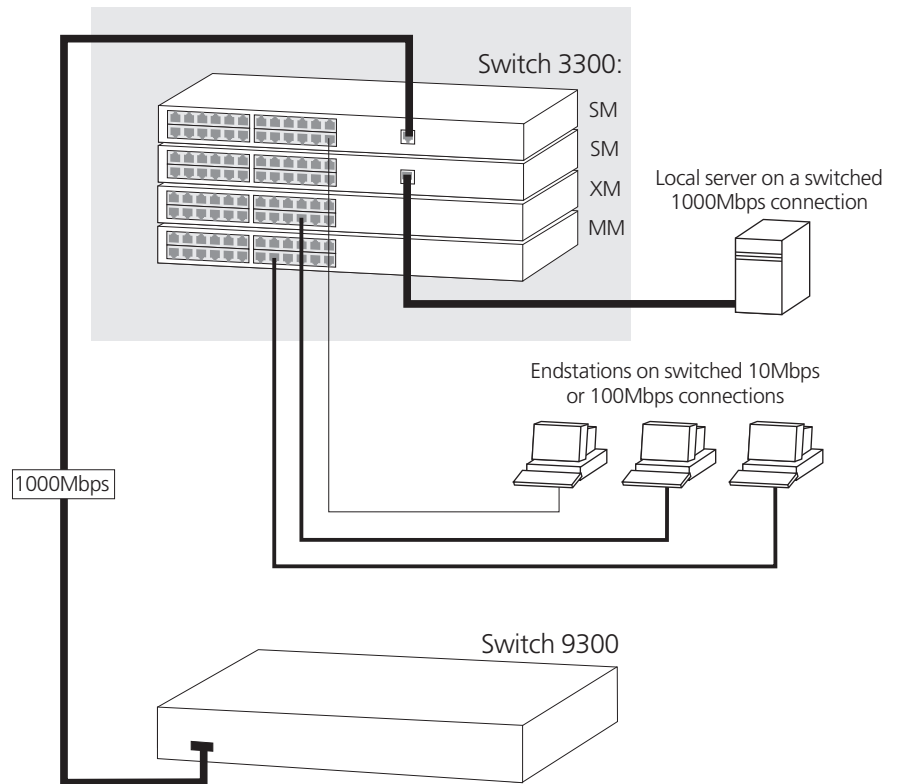
**Figure 4**    Using the Switch as a collapsed backbone



### Switch 3300 SM as a Desktop Switch

The example in [Figure 5](#) shows how a Switch 3300 SM can be used, within a stack, for a group of users that require dedicated 10Mbps or 100Mbps connections to the desktop. The 3300 SM Switches provide a Gigabit Ethernet connection to a SuperStack II Switch 9300 in the basement and to a local server.

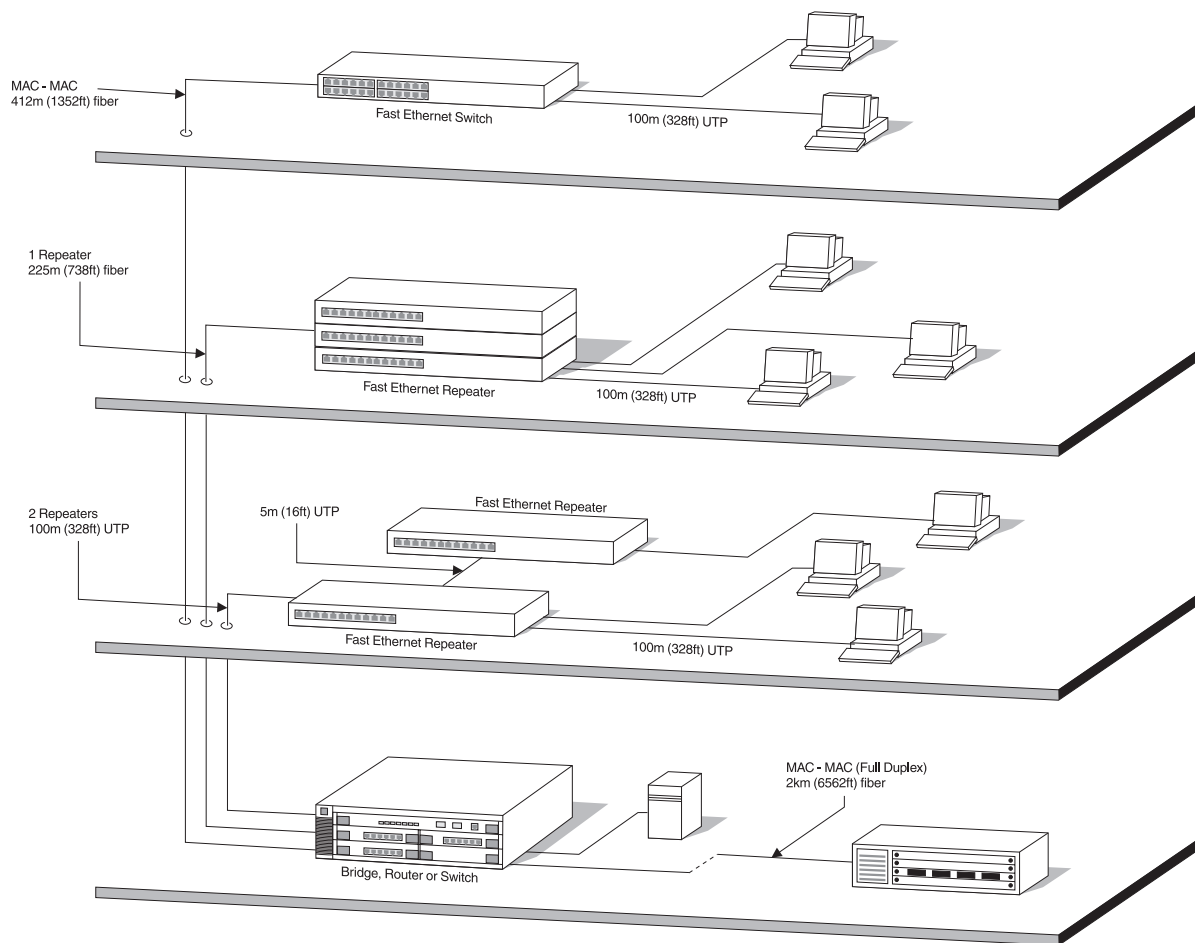
**Figure 5** Using the Switch in a desktop environment



## Configuration Rules for Fast Ethernet

The topology rules for 100Mbps Fast Ethernet are slightly different to those for 10Mbps Ethernet. [Figure 6](#) illustrates the key topology rules and provides examples of how they allow for large-scale Fast Ethernet networks.

**Figure 6** Fast Ethernet configuration rules



The key topology rules are:

- Maximum UTP cable length is 100m (328ft) over Category 5 cable.
- A 412m (1352ft) fiber run is allowed for connecting switch-to-switch, or endstation-to-switch, using half-duplex 100BASE-FX.
- A total network span of 325m (1066ft) is allowed in single-repeater topologies (one hub stack per wiring closet with a fiber run to the collapsed backbone). For example, a 225m (738ft) fiber link from a repeater to a router or switch, plus a 100m (328ft) UTP link from a repeater out to the endstations.

---

### **Configuration Rules with Full Duplex**

The Switch provides full duplex support for all its ports. Full duplex allows packets to be transmitted and received simultaneously and, in effect, doubles the potential throughput of a link.

With full duplex, the Ethernet topology rules are the same, but the Fast Ethernet rules are:

- Maximum UTP cable length is 100m (328ft) over Category 5 cable.
- A 2km (6562ft) fiber link is allowed for connecting switch-to-switch, or endstation-to-switch.

**Configuration Rules  
for Gigabit  
Ethernet**

- Gigabit Ethernet is designed to run over four media:
- Single-mode fiber optic cable, with connections up to 5km.
  - Multimode fiber optic cable, with connections up to 550m.
  - Balanced, shielded copper cabling, with connections up to 25m.
  - Category 5 cabling, with connections up to 100m.

**Table 4** Gigabit Ethernet cabling

Gigabit Ethernet Transceivers	Fiber Type	Modal Bandwidth (MHz/km)	Lengths Supported Specified by IEEE (meters)
1000BASE-LX	62.5 μm MM	500	2–550
	50 μm MM	400	2–550
	50 μm MM	500	2–550
	10 μm SM	N/A	2–5000
1000BASE-SX	62.5 μm MM	160	2–220
	62.5 μm MM	120	2–275
	50 μm MM	400	2–500
	50 μm MM	500	2–550
1000BASE-CX	N/A	N/A	25
1000BASE-T	N/A	N/A	100

*MM = Multimode    SM = Single-mode*

**Configuration Rules  
for the 3300 SM**

The Switch has a Gigabit Ethernet fiber optic 1000BASE-SX port that provides a 1000Mbps full duplex connection to another Gigabit Ethernet device. Full duplex allows packets to be transmitted and received simultaneously and, in effect, doubles the potential throughput of a link.

For the SuperStack 3 Switch 3300 SM:

- Use Multimode fiber optic cable (see [Table 4](#) for details).
- The 1000BASE-SX port is permanently fixed at 1000Mbps with full duplex.

# 2

## INSTALLING THE SWITCH

This chapter contains the information you need to install and set up the Switch. It covers the following topics:

- [Choosing a Suitable Site](#)
- [Rack-mounting](#)
- [Placing Units On Top of Each Other](#)
- [Stacking Units](#)
- [The Power-up Sequence](#)
- [Choosing the Correct Cables](#)
- [Solving Problems Indicated by LEDs](#)
- [Managing the Switch](#)



**WARNING: Safety Information.** Before installing or removing any components from the Switch 3300 SM or carrying out any maintenance procedures, you must read the safety information provided in [Appendix A](#) of this guide.



**AVERTISSEMENT: Consignes de sécurité.** Avant d'installer ou d'enlever tout composant du Switch 3300 SM ou d'entamer une procédure de maintenance, lisez les informations relatives à la sécurité qui se trouvent dans l'Appendice A de ce guide.



**WARNHINWEIS: Sicherheitsinformationen.** Bevor Sie Komponenten aus dem Switch 3300 SM entfernen oder dem Switch 3300 SM hinzufügen oder Instandhaltungsarbeiten verrichten, lesen Sie die Sicherheitsanweisungen, die in Appendix A (Anhang A) in diesem Handbuch aufgeführt sind.

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## Choosing a Suitable Site

The Switch is suited for use in an office environment where it can be mounted in a standard 19-inch equipment rack, or free standing. Alternatively, the Switch can be rack-mounted in a wiring closet or equipment room. A rack-mounting kit, containing two mounting brackets and four screws, is supplied with the Switch.

When deciding where to position the Switch, ensure that:

- You are able to meet the configuration rules detailed in [“Configuration Rules for Fast Ethernet”](#) on [page 20](#).
- The Switch is accessible and cables can be connected easily.
- Cabling is away from:
  - Sources of electrical noise such as radios, transmitters and broadband amplifiers
  - Power lines and fluorescent lighting fixtures
- Water or moisture cannot enter the case of the Switch.
- Air-flow is not restricted around the Switch or through the vents in the side of the Switch. We recommend that you provide a minimum of 25mm (1in.) clearance.
- No more than four Switch units are placed on top of one another, if the units are free standing.
- If used in an office environment, the switch is positioned so that any noise from the fan is not disruptive.

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## Rack-mounting

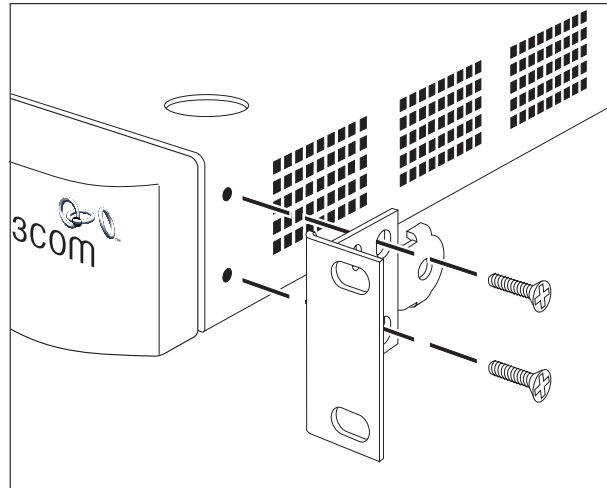
The Switch is 1U high and fits in most standard 19-inch racks.



**CAUTION:** *Disconnect all cables from the Switch before continuing. Remove all self adhesive pads from the underside of the Switch if they have been fitted.*

- 1 Place the Switch the right way up on a hard flat surface, with the front facing towards you.
- 2 Locate a mounting bracket over the mounting holes on one side of the Switch, as shown in [Figure 7](#).



**Figure 7** Fitting a bracket for rack mounting

- 3 Insert the two screws and tighten with a suitable screwdriver.



*You must use the screws supplied with the mounting brackets. Damage caused to the unit by using incorrect screws invalidates your warranty.*

- 4 Repeat steps 2 and 3 for the other side of the Switch.
- 5 Insert the Switch into the 19-inch rack and secure with suitable screws (not provided). Ensure that ventilation holes are not obstructed.
- 6 Connect network cabling.

## Placing Units On Top of Each Other

If the Switch units are free-standing, up to four units can be placed one on top of the other. If you are mixing a variety of SuperStack Switch and Hub units, the smaller units must be positioned at the top.

If you are placing Switch units one on top of the other, you must use the self-adhesive rubber pads supplied. Apply the pads to the underside of each Switch, sticking one in the marked area at each corner. Place the Switch units on top of each other, ensuring that the pads of the upper unit line up with the recesses of the lower unit.

---

## Stacking Units

Units in the Switch 1100/3300 family can be stacked together and then treated as a single manageable unit with one IP address.

The Matrix Port on the rear of the Switch allows you to connect two Switch units back-to-back. For this you need a Matrix Cable (part number 3C16965). Contact your supplier for details.

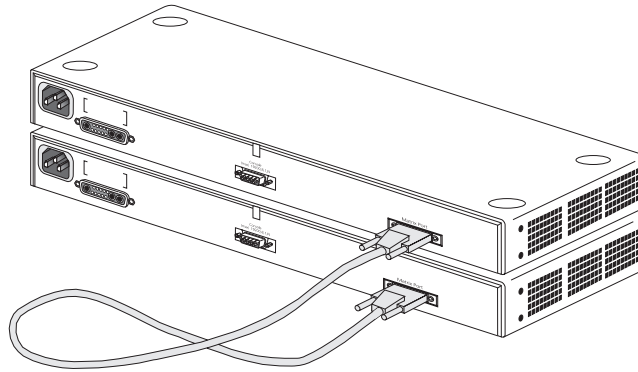


*The Switches in a stack are numbered 1 to 4, from the bottom up, for management purposes. The SuperStack 3 Switch 3300 MM will always be identified as Unit 1 and should therefore be positioned at the bottom of the stack.*

## Stacking Two Units

You can stack two Switch units with a single Matrix Cable. To do this:

- 1 Power-off both units.
  - 2 Arrange the units as required. They can be rack-mounted or free-standing; if you choose to have them free-standing, remember to position the rubber feet as detailed in [“Placing Units On Top of Each Other”](#) on [page 25](#). When positioning the units, note that Matrix Cables are 1m (3.28ft) long.
  - 3 Connect one end of the Matrix Cable to the Matrix Port of the top Switch, and the other end to the Matrix Port of the lower Switch (See [Figure 8](#)).
  - 4 If you use the management software of the units:
    - Ensure that both units have the same version of management software
    - Ensure that you re-configure the stack-wide features on both units
- For more information about management software, see [“Managing the Switch”](#) on [page 32](#).

**Figure 8** A stack of two units

### Stacking Up To Four Units

You can stack up to four Switch units using a Switch 3300 MM and the appropriate number of Matrix Cables.



*You need only one SuperStack 3 Switch 3300 MM per stack.*

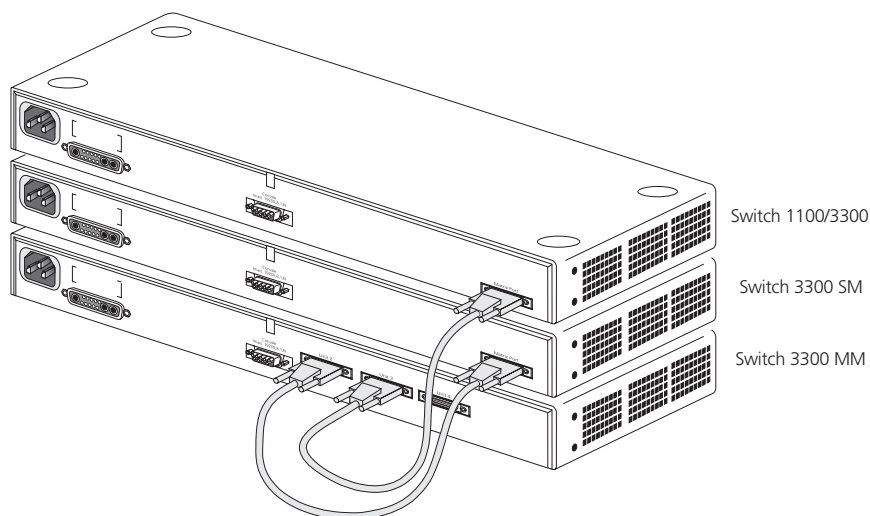
To stack up to four Switch units:

- 1 Power-off all the units.
- 2 Arrange the units as required. They can be rack-mounted or free-standing; if you choose to have them free-standing, remember to position the rubber feet as detailed in ["Placing Units On Top of Each Other"](#) on [page 25](#). When positioning the units, note that Matrix Cables are 1 m (3.28ft) long.
- 3 Connect the Matrix Cables, as shown in [Figure 9](#):
  - a Connect a Matrix Cable to the port marked Unit 2 on the Switch 3300 MM. Connect the other end of this cable to the Matrix Port on the Switch placed immediately above the Switch 3300 MM.
  - b Connect a second Matrix Cable to the port marked Unit 3 on the Switch 3300 MM. Connect the other end of this cable to the Matrix Port on the next Switch up.
  - c Connect a third Matrix Cable to the port marked Unit 4 on the Switch 3300 MM. Connect the other end of this cable to the Matrix Port on the Switch at the top of the stack.

- 4 If you use the management software of the units:
- Ensure that all the units have the same version of management software
  - Ensure that you re-configure the stack-wide features on all the units

For more information about management software, see [“Managing the Switch”](#) on [page 32](#).

**Figure 9** A stack of three units



## The Power-up Sequence

The following sections describe how to get your Switch 3300 SM powered-up and ready for operation.

### Connecting a Redundant Power System

You can connect a SuperStack Advanced Redundant Power System (part number 3C16071B) to the Switch. This unit, which is also known as an ARPS, is designed to maintain the power to your Switch if a power supply failure occurs.

For normal redundancy, the unit requires one Type 2A Power Module. For full redundancy, the unit requires two Type 2A Power Modules combined using a Type 2 Y-Cable.



*Check with your supplier that you have the correct Power Modules and cables for your ARPS unit.*



**CAUTION:** *The Switch can only use a SuperStack Advanced Redundant Power System output.*

### Powering-up the Switch 3300 SM



Use the following sequence of steps to power-up the Switch.

**CAUTION:** *The Switch has no ON/OFF switch; the only method of connecting or disconnecting main power is by connecting or disconnecting the power cord.*

- 1 Plug the power cord into the power socket at the rear of the Switch.
- 2 Plug the other end of the power cord into your power outlet

The Switch powers-up and runs through its Power On Self Test (POST), which takes approximately 12 seconds.

### Checking for Correct Operation

During the Power On Self Test, all ports on the Switch are disabled and the LEDs light in the following sequence:

- All unit LEDs light
- Port Status LEDs light in a rapid cycle

When the POST has completed, check the Power/Self Test LED to check that your Switch is operating correctly. [Table 5](#) shows possible colors for the LED.

**Table 5**   LED colors

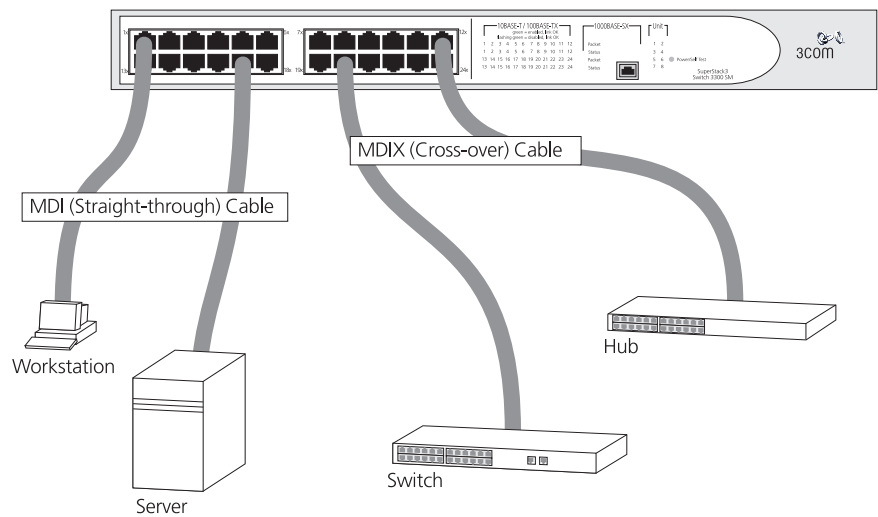
Color	State
Green	The Switch is powered-up and operating normally
Yellow	The Switch has failed its Power On Self Test. This occurs if any of the ports fail during power-up.
Off	The Switch is not receiving power.

If there is evidence of a problem, see [“Solving Problems Indicated by LEDs”](#) on [page 31](#).

**Choosing the Correct Cables**

All of the ports on the front of the Switch 3300 SM are configured as MDIX (cross-over). If you want to make a connection to another MDIX port, you need a *cross-over* cable. Most of the 10BASE-T and 100BASE-TX ports on 3Com devices are MDIX-only. Many ports on workstations and servers are configured as MDI (straight-through). If you want to make a connection to an MDI port, you need to use a standard *straight-through* cable. This is illustrated in [Figure 10](#).

**Figure 10**   Connecting other devices to the Switch 3300 SM



## Solving Problems Indicated by LEDs

If the LEDs on the Switch indicate a problem, refer to [Table 6](#) which contains a list of problems and suggested solutions.

**Table 6** Problems indicated by LEDs

Problem	Suggested Solution
<b>A Power LED does not light</b>	Check that the power cable is firmly connected to the relevant Switch unit and to the supply outlet. If the connection is secure and there is still no power, you may have a faulty power cord.
<b>On powering-up, the Power/Self Test LED lights yellow and a Unit LED lights green</b>	The relevant Switch unit has failed its Power On Self Test (POST) because of an internal problem. Contact your supplier for advice.
<b>A link is connected and yet the Status LED for the port does not light</b>	Check that: <ul style="list-style-type: none"> <li>■ All connections are secure.</li> <li>■ The devices at both ends of the link are powered-up.</li> <li>■ The connection uses cross-over cable if you are linking a 10BASE-T or 100BASE-TX port with a device that is MDIX-only.</li> </ul>

For information about solving problems when managing the Switch, refer to the Problem Solving chapter in the "SuperStack Switch Management Guide".

---

## Managing the Switch

The Switch contains software that allows you to change and monitor the way it works. This *management software* is not required to get the Switch working, but if you do use it, you may improve the efficiency of the Switch and therefore improve the overall performance of your network. For information on managing the Switch using the management software, refer to the “SuperStack Switch Management Guide”.



# A

## SAFETY INFORMATION

You must read the following safety information before carrying out any installation or removal of components, or any maintenance procedures on the Switch 3300 SM.



**WARNING:** Warnings contain directions that you must follow for your personal safety. Follow all directions carefully.  
You must read the following safety information carefully before you install or remove the unit.



**AVERTISSEMENT:** Les avertissements présentent des consignes que vous devez respecter pour garantir votre sécurité personnelle. Vous devez respecter attentivement toutes les consignes.  
Nous vous demandons de lire attentivement les consignes suivantes de sécurité avant d'installer ou de retirer l'appareil.



**WARNHINWEIS:** Warnhinweise enthalten Anweisungen, die Sie zu Ihrer eigenen Sicherheit befolgen müssen. Alle Anweisungen sind sorgfältig zu befolgen.  
Sie müssen die folgenden Sicherheitsinformationen' sorgfältig durchlesen, bevor Sie das Gerät installieren oder ausbauen.

## Important Safety Information

- Installation and removal of the unit must be carried out by qualified personnel only.
- If installing the Switch unit in a stack with SuperStack Hub units, the Switch 3300 SM unit must be installed below the Hub units.
- The unit should never be connected to an A.C. outlet (power supply) without an earth (ground) connection.
- The unit must be connected to an earthed (grounded) outlet to comply with European safety standards.
- Power Cord Set:  
This must be approved for the country where it is used:
 

U.S.A. and Canada	<ul style="list-style-type: none"> <li>■ The cord set must be UL-approved and CSA certified.</li> <li>■ The minimum specification for the flexible cord is: No. 18 AWG Type SV or SJ 3-conductor</li> <li>■ The cord set must have a rated current capacity of at least 10A.</li> <li>■ The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15A, 250V) configuration.</li> </ul>
Denmark	<ul style="list-style-type: none"> <li>■ The supply plug must comply with section 107-2-D1, standard DK2-1a or DK2-5a.</li> </ul>
Switzerland	<ul style="list-style-type: none"> <li>■ The supply plug must comply with SEV/ASE 1011.</li> </ul>
- The appliance coupler (the connector to the unit and not the wall plug) must have a configuration for mating with an EN60320/IEC320 appliance inlet.
- The socket outlet must be near to the unit and easily accessible. You can only remove power from the unit by disconnecting the power cord from the outlet.
- This unit operates under SELV (Safety Extra Low Voltage) conditions according to IEC 950. The conditions are only maintained if the equipment to which it is connected also operates under SELV conditions.
- Switzerland only:  
The supply plug must comply with SEV/ASE 1011.

- France and Peru only:  
This unit cannot be powered from IT+ supplies. If your supplies are of IT type, this unit must be powered by 230V (2P+T) via an isolation transformer ratio 1:1, with the secondary connection point labelled Neutral, connected directly to earth (ground).  
†Impédance à la terre.
- U.K. only:  
The Switch 3300 SM is covered by OfTel General Approval, NS/G/12345/J/100003, for indirect connection to a public telecommunications system. This can only be achieved using the console port on the unit and an approved modem.
- Sockets for Redundant Power System (RPS):  
Only connect an *Advanced Redundant Power System (3C16071B)* with Type 2A Power Modules and Type 2 cables to the *Redundant Power System* socket.



**WARNING: RJ-45 Ports.** *These are shielded RJ-45 data sockets. They cannot be used as telephone sockets. Only connect RJ-45 data connectors to these sockets.*

*Either shielded or unshielded data cables with shielded or unshielded jacks can be connected to these data sockets.*



**WARNING: Fiber Optic ports - Optical Safety.**



*Never look at the transmit laser through a magnifying device while it is powered on. Never look directly at the fiber port and fiber cable ends when they are powered on.*

## L'information de Sécurité Importante

- L'installation et la dépose de ce groupe doivent être confiés à un personnel qualifié.
- Si vous entassez l'unité Switch avec les unités SuperStack Hub, l'unité Switch 3300 SM doit être installée en dessous des unités Hub plus étroites.
- L'unité ne devrait pas être branchée à une prise de courant C.A. (source de courant) sous aucun prétexte sans un branchement mise à la terre (mise à la masse).
- Vous devez raccorder ce groupe à une sortie mise à la terre (mise à la masse) afin de respecter les normes européennes de sécurité.
- Cordon électrique:  
Il doit être agréé dans le pays d'utilisation:
 

Etats-Unis et Canada	<ul style="list-style-type: none"> <li>■ Le cordon doit avoir reçu l'homologation des UL et un certificat de la CSA</li> <li>■ Le cordon souple doit respecter, à titre minimum, les spécifications suivantes :               <ul style="list-style-type: none"> <li>■ calibre 18 AWG</li> <li>■ type SV ou 5J</li> <li>■ à 3 conducteurs</li> </ul> </li> <li>■ Le cordon doit être en mesure d'acheminer un courant nominal d'au moins 10 A</li> <li>■ La prise femelle de branchement doit être du type à mise à la terre (mise à la masse) et respecter la configuration NEMA 5-15P (15 A, 125 V) ou NEMA 6-15P (15 A, 250 V)</li> </ul>
Danemark	<ul style="list-style-type: none"> <li>■ La prise mâle d'alimentation doit respecter la section 107-2 D1 de la norme DK2 1a ou DK2 5a</li> </ul>
Suisse	<ul style="list-style-type: none"> <li>■ La prise mâle d'alimentation doit respecter la norme SEV/ASE 1011</li> </ul>
- Le coupleur d'appareil (le connecteur du groupe et non pas la prise murale) doit respecter une configuration qui permet un branchement sur une entrée d'appareil EN60320/CEI 320.
- La prise secteur doit se trouver à proximité de l'appareil et son accès doit être facile. Vous ne pouvez mettre l'appareil hors circuit qu'en débranchant son cordon électrique au niveau de cette prise.

- L'appareil fonctionne à une tension extrêmement basse de sécurité qui est conforme à la norme CEI 950. Ces conditions ne sont maintenues que si l'équipement auquel il est raccordé fonctionne dans les mêmes conditions.
- France et Pérou uniquement:  
Ce groupe ne peut pas être alimenté par un dispositif à impédance à la terre. Si vos alimentations sont du type impédance à la terre, ce groupe doit être alimenté par une tension de 230 V (2 P+T) par le biais d'un transformateur d'isolement à rapport 1:1, avec un point secondaire de connexion portant l'appellation Neutre et avec raccordement direct à la terre (masse).
- Branchez uniquement un *Advanced Redundant Power System* (3C16071B) avec Type 2A Power Modules et Type 2 câbles sur la prise femelle du *Redundant Power System*.



**AVERTISSEMENT: Les ports RJ-45.** Il s'agit de prises femelles blindées de données RJ-45. Vous ne pouvez pas les utiliser comme prise de téléphone. Branchez uniquement des connecteurs de données RJ-45 sur ces prises femelles.

Les câbles de données blindés ou non blindés, avec les jacks blindés ou non blindés, l'un ou l'autre, peuvent être branchés à ces prises de courant de données.



**AVERTISSEMENT: Ports pour fibres optiques - sécurité sur le plan optique.**



Ne regardez jamais le laser d'émission en utilisant un dispositif d'agrandissement, tant qu'il est sous tension. Ne regardez jamais directement le port à fibres optiques et les embouts de câbles à fibres optiques tant qu'ils sont sous tension.

## Wichtige Sicherheitsinformat ionen

- Die Installation und der Ausbau des Geräts darf nur durch Fachpersonal erfolgen.
- Wenn die Switch 3300 SM Einheit in einer Stapel mit anderen SuperStack Hub Einheiten eingebaut werden soll, muß die Switch 3300 SM Einheit unter die schmalere Hub Einheiten eingebaut werden.
- Das Gerät ist unter keinen Umständen an einen Wechselstrom (A.C.) Netzstecker anzuschließen ohne Erdungsleitung.
- Das Gerät muß an eine geerdete Steckdose angeschlossen werden, die die europäischen Sicherheitsnormen erfüllt.
- Der Anschlußkabelsatz muß mit den Bestimmungen des Landes übereinstimmen, in dem er verwendet werden soll.
- Der Gerätestecker (der Anschluß an das Gerät, nicht der Wandsteckdosenstecker) muß eine passende Konfiguration für einen Geräteeingang gemäß EN60320/IEC320 haben.
- Die Netzsteckdose muß in der Nähe des Geräts und leicht zugänglich sein. Die Stromversorgung des Geräts kann nur durch Herausziehen des Gerätenetzkabels aus der Netzsteckdose unterbrochen werden.
- Der Betrieb dieses Geräts erfolgt unter den SELV-Bedingungen (Sicherheitskleinstspannung) gemäß IEC 950. Diese Bedingungen sind nur gegeben, wenn auch die an das Gerät angeschlossenen Geräte unter SELV-Bedingungen betrieben werden.
- Nur ein *Advanced Redundant Power System* (3C16071B) mit Type 2A Power Modules und Type 2 Kabel an den *Redundant Power System* Anschluß anschließen.



**WARNHINWEIS: RJ-45 Ports. RJ-45-Anschlüsse.** Dies sind abgeschirmte RJ-45-Datenbuchsen. Sie können nicht als Telefonanschlußbuchsen verwendet werden. An diesen Buchsen dürfen nur RJ-45-Datenstecker angeschlossen werden.

Diese Datenstecker können entweder mit abgeschirmten oder unabgeschirmten Datenkabeln mit abgeschirmten oder unabgeschirmten Klinkensteckern verbunden werden.

**WARNHINWEIS: Faseroptikanschlüsse - Optische Sicherheit.**

*Niemals mit einem Vergrößerungsgerät einen Übertragungs-Laser betrachten, während dieser eingeschaltet ist. Niemals direkt auf den Faser Anschluß und auf die Faserkabelenden schauen, während diese eingeschaltet sind.*





# B

## PIN-OUTS

### Null Modem Cable

9-pin to RS-232 25-pin

Switch 3300 SM

Cable connector: 9-pin female

Screen	Shell	●
TxD	3	●
RxD	2	●
Ground	5	●
RTS	7	●
CTS	8	●
DSR	6	●
DCD	1	●
DTR	4	●

PC/Terminal

Cable connector: 25-pin male/female

●	1	Screen
●	3	RxD
●	2	TxD
●	7	Ground
●	4	RTS
●	20	DTR
●	5	CTS
●	6	DSR
●	8	DCD

only required if screen

always required

required for handshake

### PC-AT Serial Cable

9-pin to 9-pin

Switch 3300 SM

Cable connector: 9-pin female

Screen	Shell	●
DTR	4	●
TxD	3	●
RxD	2	●
CTS	8	●
Ground	5	●
DSR	6	●
RTS	7	●
DCD	1	●

PC-AT Serial Port

Cable connector: 9-pin female

●	Shell	Screen
●	1	DCD
●	2	RxD
●	3	TxD
●	4	DTR
●	5	Ground
●	6	DSR
●	7	RTS
●	8	CTS

only required if screen

always required

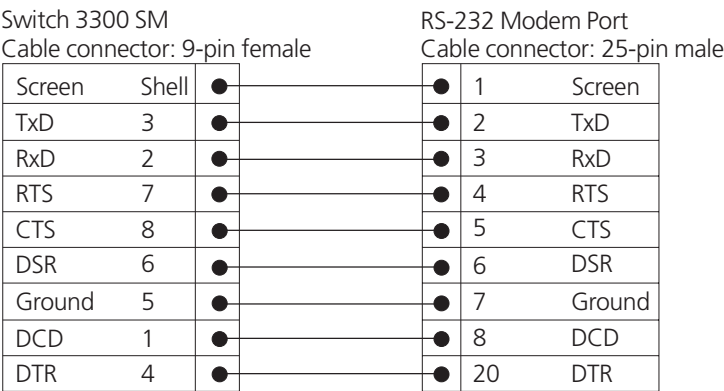
required for handshake

always required

required for handshake

Modem Cable

9-pin to RS-232 25-pin



RJ45 Pin Assignments

Pin assignments are identical for 10BASE-T and 100BASE-TX RJ45 connectors

Table 7 Pin assignments

Pin Number	Signal	Function
<i>Ports configured as MDI</i>		
1	TxData +	Transmit data
2	TxData –	Transmit data
3	RxData +	Receive Data
4	Not assigned	
5	Not assigned	
6	RxData –	Receive data
7	Not assigned	
8	Not assigned	

**Table 7** Pin assignments

Pin Number	Signal	Function
<i>Ports configured as MDIX</i>		
1	RxData +	Receive Data
2	RxData –	Receive Data
3	TxData +	Transmit data
4	Not assigned	
5	Not assigned	
6	TxData –	Transmit data
7	Not assigned	
8	Not assigned	





# TECHNICAL SPECIFICATIONS

<b>Physical Dimensions</b>	Height: 43.6mm x Width: 440mm x Depth: 247.5mm Weight: 5kg (11lbs)
<b>Environmental Requirements</b>	
Operating Temperature	0° to 50°C (32° to 122°F)
Storage Temperature	−10° to +70°C (14° to 158°F)
Operating Humidity	10–95% relative humidity, non-condensing
Standards	EN60068 (IEC68) — various parts
<b>Safety</b>	
Agency Certifications	UL 1950, EN60950, CSA 22.2 No. 950, IEC 60950, EN60825-1
<b>EMC</b>	
Emissions	EN55022 Class A, FCC Part 15 subpart B Class A, ICES-003 Class A, VCCI Class A, AS/NZS 3548 Class A, CNS 13438 Class A
Immunity	EN50082-1
<b>Heat Dissipation</b>	75 watts maximum
<b>Power Supply</b>	
AC Line Frequency	50/60Hz
Input Voltage Options	90–240 VAC
Current Rating	3amps (maximum)

(continued)

Standards Supported	SNMP	Terminal Emulation
	SNMP protocol (RFC 1157)	Telnet (RFC 854)
	MIB-II (RFC 1213)	Protocols Used for Administration
	Bridge MIB (RFC 1493)	UDP (RFC 768)
	Repeater MIB (RFC 1516)	IP (RFC 791)
	VLAN MIB (RFC 1573)	ICMP (RFC 792)
	RMON MIB (RFC 1271)	TCP (RFC 793)
	BOOTP (RFC 951)	ARP (RFC 826)
		TFTP (RFC 783)
Year 2000 Compliance	For information on Year 2000 Compliance and 3Com products, visit the 3Com Year 2000 Web page:  <a href="http://www.3Com.com/products/yr2000.html">http://www.3Com.com/products/yr2000.html</a>	

# D

## TECHNICAL SUPPORT

3Com provides easy access to technical support information through a variety of services. This appendix describes these services.

Information contained in this appendix is correct at time of publication. For the most recent information, 3Com recommends that you access the 3Com Corporation World Wide Web site.

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### Online Technical Services

3Com offers worldwide product support 24 hours a day, 7 days a week, through the following online systems:

- World Wide Web site
- 3Com Knowledgebase Web Services
- 3Com FTP site

### World Wide Web Site

To access the latest networking information on the 3Com Corporation World Wide Web site, enter this URL into your Internet browser:

**<http://www.3com.com/>**

This service provides access to online support information such as technical documentation and software, as well as support options that range from technical education to maintenance and professional services.

### 3Com Knowledgebase Web Services

This interactive tool contains technical product information compiled by 3Com expert technical engineers around the globe. Located on the World Wide Web at **<http://knowledgebase.3com.com>**, this service gives all 3Com customers and partners complementary, round-the-clock access to technical information on most 3Com products.

**3Com FTP Site** Download drivers, patches, software, and MIBs across the Internet from the 3Com public FTP site. This service is available 24 hours a day, 7 days a week.

To connect to the 3Com FTP site, enter the following information into your FTP client:

- Hostname: **ftp.3com.com**
- Username: **anonymous**
- Password: **<your Internet e-mail address>**



*You do not need a user name and password with Web browser software such as Netscape Navigator and Internet Explorer.*

### Support from Your Network Supplier

If you require additional assistance, contact your network supplier. Many suppliers are authorized 3Com service partners who are qualified to provide a variety of services, including network planning, installation, hardware maintenance, application training, and support services.

When you contact your network supplier for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

If you are unable to contact your network supplier, see the following section on how to contact 3Com.

### Support from 3Com

If you are unable to obtain assistance from the 3Com online technical resources or from your network supplier, 3Com offers technical telephone support services. To find out more about your support options, call the 3Com technical telephone support phone number at the location nearest you.

When you contact 3Com for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels



- Diagnostic error messages
- Details about recent configuration changes, if applicable

Here is a list of worldwide technical telephone support numbers:

Country	Telephone Number	Country	Telephone Number
<b>Asia, Pacific Rim</b>			
Australia	1 800 678 515	P.R. of China	10800 61 00137 or 021 6350 1590
Hong Kong	800 933 486	Singapore	800 6161 463
India	+61 2 9937 5085	S. Korea	82 2 3455 6455
Indonesia	001 800 61 009	From anywhere in S. Korea:	00798 611 2230
Japan	0531 61 6439	From Seoul:	00798 611 2230
Malaysia	1800 801 777	Taiwan, R.O.C.	0080 611 261
New Zealand	0800 446 398	Thailand	001 800 611 2000
Pakistan	+61 2 9937 5083		
Philippines	1235 61 266 2602		
<b>Europe</b>			
From anywhere in Europe, call: +31 (0)30 6029900 phone +31 (0)30 6054396 fax			
<b>Europe, South Africa, and Middle East</b>			
From the following countries, you may use the toll-free numbers:			
Austria	0800 297468	Middle East	1800 945 3794
Belgium	0800 71429	Netherlands	0800 0227788
Denmark	800 17309	Norway	800 11376
Finland	0800 113153	Poland	00800 3111206
France	0800 917959	Portugal	0800 831416
Germany	0800 1821502	Russia	0800 995014
Hungary	06800 12813	South Africa	0800 995014
Ireland	1800 553117	Spain	900 983125
Israel	1800 9453794	Sweden	020 795482
Italy	1678 79489	Switzerland	0800 55 3072
Luxembourg	0800 3625	U.K.	0800 966197
<b>Latin America</b>			
Argentina	5411 4510 3200	Mexico	01 800 CARE (01 800 2273)
Brazil	0800 13 3266	Puerto Rico	800 666 5065
Colombia	571 629 4827	South America	1800 666 5065
<b>North America</b>			
1 800 NET 3Com (1 800 638 3266)			
Enterprise Customers: 1 800 876-3266			

**Returning Products  
for Repair**

Before you send a product directly to 3Com for repair, you must first obtain an authorization number. Products sent to 3Com without authorization numbers will be returned to the sender unopened, at the sender's expense.

To obtain an authorization number, call or fax:

Country	Telephone Number	Fax Number
Asia, Pacific Rim	+ 65 543 6500	+ 65 543 6348
Brazil	5511 523 2725	
Europe, South Africa, and Middle East	+ 31 30 6029900	+ 31 30 6029999
Central and South America	525 201 0075	
From the following countries, you may call the toll-free numbers; select option 2 and then option 2:		
Austria	0800 297468	
Belgium	0800 71429	
Denmark	800 17309	
Finland	0800 113153	
France	0800 917959	
Germany	0800 1821502	
Hungary	00800 12813	
Ireland	1800553117	
Israel	1800 9453794	
Italy	1678 79489	
Netherlands	0800 0227788	
Norway	800 11376	
Poland	00800 3111206	
Portugal	0800 831416	
South Africa	0800 995014	
Spain	900 983125	
Sweden	020 795482	
Switzerland	0800 55 3072	
U.K.	0800 966197	
U.S.A. and Canada	1 800 NET 3Com (1 800 638 3266)	1 408 326 7120 (not toll-free)
	Enterprise Customers: 1 800 876 3266	

# GLOSSARY

<b>10BASE-T</b>	The IEEE specification for 10Mbps Ethernet over Category 3, 4 or 5 twisted pair cable.
<b>100BASE-FX</b>	The IEEE specification for 100Mbps Fast Ethernet over fiber-optic cable.
<b>100BASE-TX</b>	The IEEE specification for 100Mbps Fast Ethernet over Category 5 twisted-pair cable.
<b>1000BASE-SX</b>	The IEEE specification for 1000Mbps Gigabit Ethernet over fiber-optic cable.
<b>1000BASE-T</b>	The IEEE specification for 1000Mbps Gigabit Ethernet over Category 5 twisted-pair cable.
<b>auto-negotiation</b>	A feature on twisted pair ports that allows them to advertise their capabilities for speed, duplex and flow control. When connected to a port that also supports auto-negotiation, the link can automatically configure itself to the optimum setup.
<b>backbone</b>	The part of a network used as a primary path for transporting traffic between network segments.
<b>bandwidth</b>	The information capacity, measured in bits per second, that a channel can transmit. The bandwidth of Ethernet is 10Mbps, the bandwidth of Fast Ethernet is 100Mbps.
<b>baud</b>	The signalling rate of a line, that is, the number of transitions (voltage or frequency changes) made per second. Also known as <i>line speed</i> .
<b>bridge</b>	<p>A device that interconnects two LANs of a different type to form a single logical network that comprises of two network segments.</p> <p>Bridges learn which endstations are on which network segment by examining the source addresses of packets. They then use this</p>

information to forward packets based on their destination address. This process is known as filtering.

**broadcast** A packet sent to all devices on a network.

**broadcast storm** Multiple simultaneous broadcasts that typically absorb all the available network bandwidth and can cause a network to fail. Broadcast storms can be due to faulty network devices.

**collision** A term used to describe two colliding packets in an Ethernet network. Collisions are a part of normal Ethernet operation, but a sudden prolonged increase in the number of collisions can indicate a problem with a device, particularly if it is not accompanied by a general increase in traffic.

**CSMA/CD** Carrier-sense Multiple Access with Collision Detection. The protocol defined in Ethernet and IEEE 802.3 standards in which devices transmit only after finding a data channel clear for a period of time. When two devices transmit simultaneously, a collision occurs and the colliding devices delay their retransmissions for a random length of time.

**endstation** A computer, printer or server that is connected to a network.

**Ethernet** A LAN specification developed jointly by Xerox, Intel and Digital Equipment Corporation. Ethernet networks use CSMA/CD to transmit packets at a rate of 10Mbps over a variety of cables.

**Ethernet address** See *MAC address*.

**Fast Ethernet** An Ethernet system that is designed to operate at 100Mbps.

**forwarding** The process of sending a packet toward its destination using a networking device.

**filtering** The process of screening a packet for certain characteristics, such as source address, destination address, or protocol. Filtering is used to determine whether traffic is to be forwarded, and can also prevent unauthorized access to a network or network devices.

**flow control** A congestion control mechanism. Congestion is caused by devices sending traffic to already overloaded port on a Switch. Flow control prevents packet loss and inhibits devices from generating more traffic until the period of congestion ends.

- full duplex** A system that allows packets to be transmitted and received at the same time and, in effect, doubles the potential throughput of a link.
- half duplex** A system that allows packets to be transmitted and received, but not at the same time. Contrast with *full duplex*.
- hub** A device that regenerates LAN traffic so that the transmission distance of that signal can be extended. Hubs are similar to repeaters, in that they connect LANs of the same type; however they connect more LANs than a repeater and are generally more sophisticated.
- IEEE** Institute of Electrical and Electronics Engineers. This American organization was founded in 1963 and sets standards for computers and communications.
- IEEE 802.1D** A standard that defines the behavior of bridges in an Ethernet network.
- IETF** Internet Engineering Task Force. An organization responsible for providing engineering solutions for TCP/IP networks. In the network management area, this group is responsible for the development of the SNMP protocol.
- IP** Internet Protocol. IP is a layer 3 network protocol that is the standard for sending data through a network. IP is part of the TCP/IP set of protocols that describe the routing of packets to addressed devices.
- IPX** Internetwork Packet Exchange. IPX is a layer 3 and 4 network protocol designed for networks that use Novell Netware.
- IP address** Internet Protocol address. A unique identifier for a device attached to a network using TCP/IP. The address is written as four octets separated with periods (full-stops), and is made up of a network section, an optional subnet section and a host section.
- LAN** Local Area Network. A network of endstations (such as PCs, printers, servers) and network devices (hubs and switches) that cover a relatively small geographic area (usually not larger than a floor or building). LANs are characterized by high transmission speeds over short distances (up to 1000m).
- line speed** See *baud*.

- loop** An event that occurs when two network devices are connected by more than one path, thereby causing packets to repeatedly cycle around the network and not reach their destination.
- MAC** Media Access Control. A protocol specified by the IEEE for determining which devices have access to a network at any one time.
- MAC address** Media Access Control address; also called hardware or physical address. A layer 2 address associated with a particular network device. Most devices that connect to a LAN have a MAC address assigned to them as they are used to identify other devices in a network. MAC addresses are 6 bytes long.
- MDI** Medium Dependent Interface. An Ethernet port connection where the transmitter of one device is connected to the receiver of another device.
- MDI-X** Medium Dependent Interface Cross-over. An Ethernet port connection where the internal transmit and receive lines are crossed.
- multicast** A packet sent to a specific group of endstations on a network.
- NIC** Network Interface Card. A circuit board installed in an endstation that allows it to be connected to a network.
- POST** Power On Self Test. An internal test that a Switch carries out when it is powered-up.
- protocol** A set of rules for communication between devices on a network. The rules dictate format, timing, sequencing and error control.
- repeater** A simple device that regenerates LAN traffic so that the transmission distance of that signal can be extended. Repeaters are used to connect two LANs of the same network type.
- router** A device that provides WAN links between geographically separate networks.
- RPS** Redundant Power System. A device that provides a backup source of power when connected to a Switch.
- segment** A section of a LAN that is connected to the rest of the network using a switch or bridge.

<b>server</b>	A computer in a network that is shared by multiple endstations. Servers provide endstations with access to shared network services such as computer files and printer queues.
<b>SLIP</b>	Serial Line Internet Protocol. A protocol that allows IP to run over a serial line (console port) connection.
<b>SNMP</b>	Simple Network Management Protocol. The current IETF standard protocol for managing devices on an TCP/IP network.
<b>stack</b>	A group of network devices that are integrated to form a single logical device.
<b>STP</b>	See <i>Spanning Tree Protocol (STP)</i> .
<b>SuperStack</b>	In this guide, the generic term SuperStack refers to any SuperStack II and SuperStack 3 device. SuperStack II and SuperStack 3 devices can be connected together to form a SuperStack system.
<b>switch</b>	A device that interconnects several LANs to form a single logical LAN that comprises of several LAN segments. Switches are similar to bridges, in that they connect LANs of a different type; however they connect more LANs than a bridge and are generally more sophisticated.
<b>Switch Database</b>	A database that is stored by a switch to determine if a packet should be forwarded, and which port should forward the packet if it is to be forwarded.
<b>TCP/IP</b>	<p>Transmission Control Protocol/Internet Protocol. This is the name for two of the most well-known protocols developed for the interconnection of networks. Originally a UNIX standard, TCP/IP is now supported on almost all platforms, and is the protocol of the Internet.</p> <p>TCP relates to the content of the data travelling through a network — ensuring that the information sent arrives in one piece when it reaches its destination. IP relates to the address of the endstation to which data is being sent, as well as the address of the destination network.</p>
<b>Telnet</b>	A TCP/IP application protocol that provides a virtual terminal service, letting a user log into another computer system and access a device as if the user were connected directly to the device.
<b>TFTP</b>	Trivial File Transfer Protocol. Allows you to transfer files (such as software upgrades) from a remote device using the local management capabilities of the Switch.

**unicast** A packet sent to a single endstation on a network.

**WAN** Wide Area Network. A communications network that covers a wide area. A WAN can cover a large geographic area, and may contain several LANs within it.



# INDEX

---

## A

1000BASE-SX 13  
10BASE-T/100BASE-TX ports 13  
3C number 15  
3Com Knowledgebase Web Services 47  
3Com URL 47

---

## A

auto-negotiating ports 13

---

## C

cable  
    choosing the correct 30  
    Matrix 16  
    maximum length 13, 21, 22  
    pin-outs 41  
console port 16  
conventions  
    notice icons, About This Guide 8  
    text, About This Guide 8  
cross-over configuration 13, 30

---

## E

Ethernet address of the Switch 15

---

## F

Fast Ethernet configuration rules 20  
full duplex configuration rules 21

---

## G

Gigabit Ethernet configuration rules 22  
glossary 51

---

## H

hardware features 12

---

## I

installing the Switch 23  
    prerequisites 24

---

## L

LEDs 13  
Light Emitting Diodes. See LEDs

---

## M

MAC address of the Switch 15  
management software 32  
managing the Switch 32  
Matrix Cable 16  
matrix port 16  
MDI configuration 30  
MDIX configuration 13, 30  
MIBs 48

---

## N

network configuration examples 17  
network supplier support 48

---

## O

online technical services 47

---

## P

pin assignments  
    modem cable 42  
    null modem cable 41  
    RJ45 42  
    serial cable 41  
pin-outs 41  
ports  
    10BASE-T/100BASE-TX 13  
    auto-negotiating 13  
    console 16  
    matrix 16  
power socket 15

powering-up a Switch 3300 SM 29  
product name 15

---

## R

rack mounting a Switch 3300 SM 24  
Redundant Power System. *See* RPS  
returning products for repair 50  
RPS 15  
    connecting 29  
    socket 15

---

## S

safety information  
    English 34  
    French 36  
    German 38  
segment, maximum length 13, 21  
serial number of the Switch 15  
serial port. *See* console port  
socket  
    power 15  
    RPS 15  
specifications, system 45  
stacking a Switch 3300 SM 26  
standards supported 46  
straight-through configuration 30  
Switch 3300 SM  
    10BASE-T/100BASE-TX ports 13  
    3C number 15  
    console port 16  
    dimensions 45  
    Ethernet address 15  
    features 12  
    installation 23, 24  
    MAC address 15  
    power socket 15  
    powering-up 29  
    product name 15  
    rack mounting 24  
    rear view 15  
    RPS socket 15  
    serial number 15  
    size 45  
    stacking 26  
    standards supported 46  
    unit information label 15  
    weight 45  
system specifications 45

---

## T

technical support  
    3Com Knowledgebase Web Services 47  
    3Com URL 47  
    network suppliers 48  
    product repair 50  
topology rules for Fast Ethernet 20  
topology rules with full duplex 21

---

## U

unit information label 15  
URL 47

---

## W

World Wide Web (WWW) 47

---

## Y

Year 2000 compliance 46

# 3Com Corporation LIMITED WARRANTY

This warranty applies to customers located in the United States, Australia, Canada (except Quebec), Ireland, New Zealand, U.K., and other English language countries, and countries for which a translation into the local language is not provided.

## SUPERSTACK® 3 SWITCH 3300 SM

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### HARDWARE:

3Com warrants to the end user ("Customer") that this hardware product will be free from defects in workmanship and materials, under normal use and service, for the following length of time from the date of purchase from 3Com or its authorized reseller:

Lifetime, for as long as the original Customer owns the product (not transferable to a subsequent end user)

3Com's sole obligation under this express warranty shall be, at 3Com's option and expense, to repair the defective product or part, deliver to Customer an equivalent product or part to replace the defective item, or if neither of the two foregoing options is reasonably available, 3Com may, in its sole discretion, refund to Customer the purchase price paid for the defective product. All products that are replaced will become the property of 3Com. Replacement products or parts may be new or reconditioned. 3Com warrants any replaced or repaired product or part for ninety (90) days from shipment, or the remainder of the initial

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### SOFTWARE:

3Com warrants to Customer that each software program licensed from it, except as noted below, will perform in substantial conformance to its program specifications, for a period of ninety (90) days from the date of purchase from 3Com or its authorized reseller. 3Com warrants the media containing software against failure during the warranty period. No updates are provided, unless specifically included in the Included Services section. 3Com's sole obligation under this express warranty shall be, at 3Com's option and expense, to refund the purchase price paid by Customer for any defective software product, or to replace any defective media with software which substantially conforms to applicable 3Com published specifications. Customer assumes responsibility for the selection of the appropriate applications program and associated reference materials. 3Com makes no warranty or representation that its software products will meet Customer's requirements or work in combination with any hardware or applications software products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected. For any third party products listed in the 3Com software product documentation or specifications as being compatible, 3Com will make reasonable efforts to provide compatibility, except where the non-compatibility is caused by a "bug" or defect in the third party's product or from use of the software product not in accordance with 3Com's published specifications or user manual.

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Any software update or replaced or repaired product will carry a Year 2000 Warranty for ninety (90) days after purchase.

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This Limited Warranty shall be governed by the laws of the State of California, U.S.A., and by the laws of the United States, excluding their conflicts of laws principles. The United Nations Convention on Contracts for the International Sale of Goods is hereby excluded in its entirety from application to this Limited Warranty.

3Com Corporation  
5400 Bayfront Plaza  
P.O. Box 58145  
Santa Clara, CA 95052-8145  
(408) 326-5000

June 23, 2000

## REGULATORY NOTICES

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### FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference to radio communications, in which case the user will be required to correct the interference at their own expense.

#### Information To The User

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the equipment with respect to the receiver.
- Move the equipment away from the receiver.
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

*How to Identify and Resolve Radio-TV Interference Problems*

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

In order to meet FCC emissions limits, this equipment must be used only with cables which comply with IEEE 802.3.

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### CSA STATEMENT

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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### CE STATEMENT (EUROPE)

This product complies with the European Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC as amended by European Directive 93/68/EEC.

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

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### VCCI STATEMENT

この装置は、情報処理装置等電波障害自主規制協議会（V C C I）の基準に基づくクラス A 情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

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